



UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO  
MAIN/JIW/th  
4100  
5 June 1978

Mr. J. Gordon Layton  
North Carolina Department of Human Resources  
Division of Health Services  
Solid Waste Branch  
Post Office Box 2091  
Raleigh, North Carolina 27602

Dear Mr. Layton:

As per our discussion during the 25 May 1978 meeting at Camp Lejeune relative to the Base Sanitary Landfill Operation Plan, the enclosed soils data, facilities maps, contour maps and cross sectional drawings are submitted for your review and continued action.

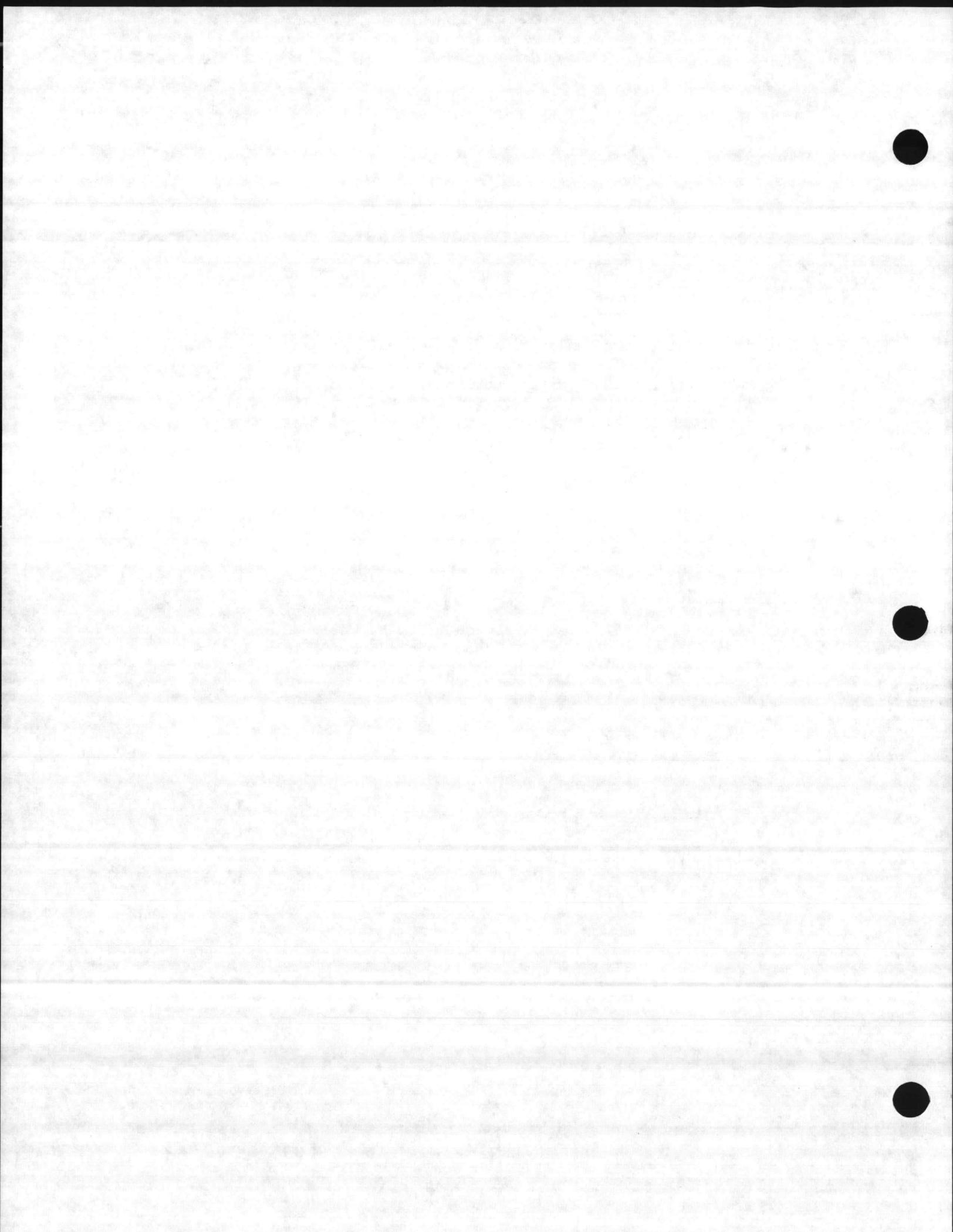
It is understood this information will be used to evaluate/approve ~~the existing site and proposed expansion area.~~

For further information contact Mr. Wendell Neal or Mr. Julian Wooten, Base Maintenance Department, phone (919) 451-5003/2083.

Sincerely,

C. D. WOOD  
Colonel, U. S. Marine Corps  
Base Maintenance Officer  
By direction of the Commanding General

Enclosures



June 19, 1978

Colonel C. D. Wood  
Base Maintenance Officer  
U. S. Marine Corps  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Dear Colonel Wood:

RE: Camp Lejeune Base Landfill Site Plans

Enclosed is a copy of the landfill site plan which is approved with the following conditions:

1. A 3-foot separation between waste and the ground water table shall be maintained.
2. Inundated areas shall be filled with soil or inert material before use.

These conditions should be used in developing the operational plans.

In regard to our meeting of May 25, 1978, in reference to a drainage system for the site, a meeting should be scheduled with Mr. Fred J. Wood and me before the final design of the operational plans is completed.

Also, please find enclosed a copy of the Division of Health Services' "Solid Waste Management Rules".

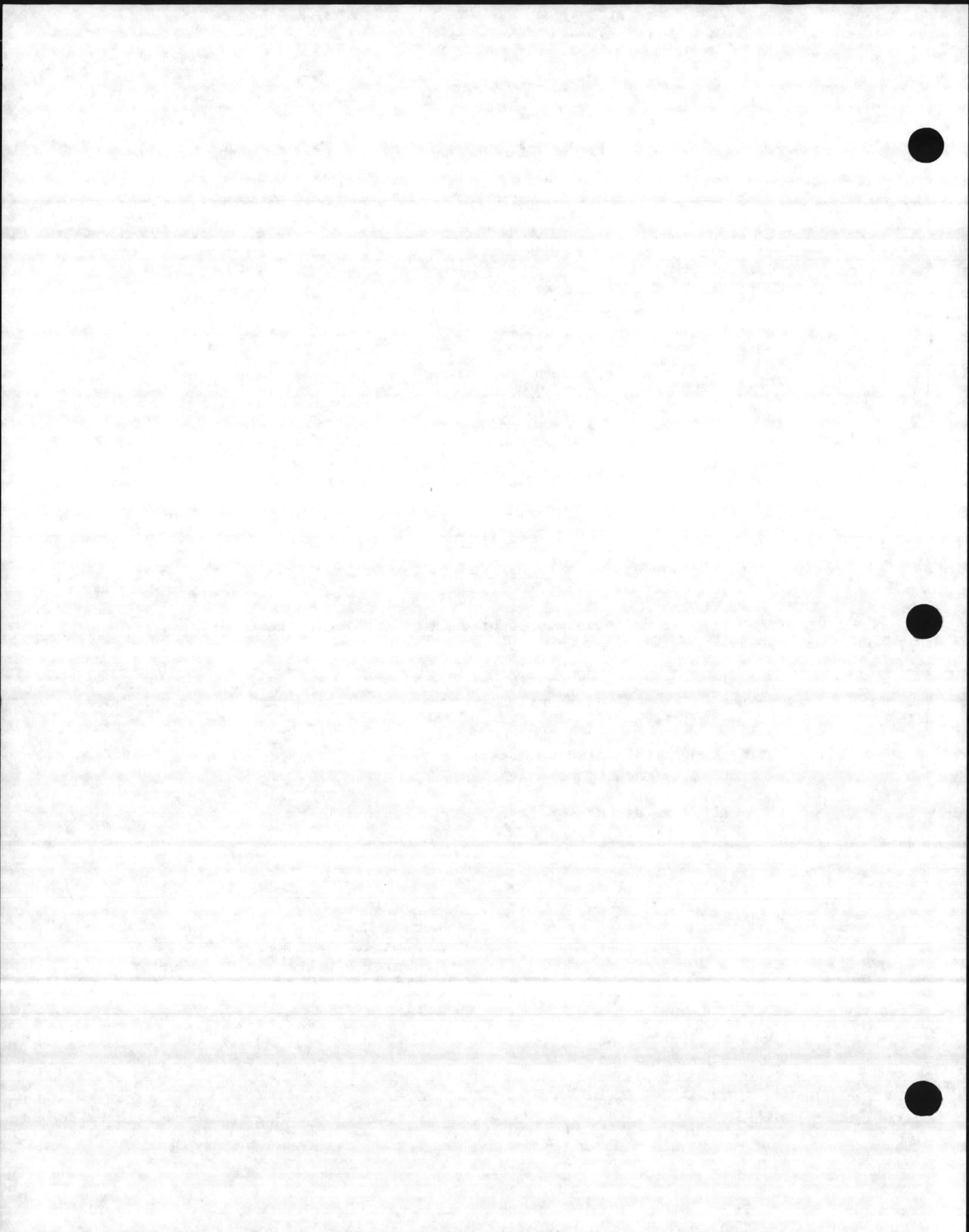
If I can assist you in any way, please call me.

Sincerely,

J. Gordon Layton  
Environmental Engineer  
Solid Waste & Vector Control Branch  
Sanitary Engineering Section

JGL/wss

cc: Mr. Wendall Neal  
Mr. Julian Wooten  
Mr. Fred J. Wood  
Mr. O. W. Strickland





MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO



PWO:04:ELR:hf  
PWD 81-21  
9 1 APR 1982

Mr. Gordon Layton  
N. C. Department of Human Resources  
Solid and Hazardous Waste Management Branch  
P. O. Box 2091  
Raleigh, NC 27602

Re: Camp Lejeune Sanitary Landfill  
Operational Plan

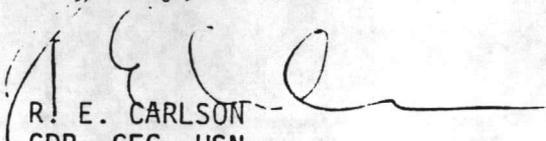
Dear Mr. Layton:

The enclosed four copies of the Operational Plan for the Marine Corps Base, Camp Lejeune, Sanitary Landfill are submitted for your approval.

Please address questions, comments and correspondence to:

Mr. Eris L. Rouse  
Director, Design Division  
Public Works Dept, Marine Corps Base  
Camp Lejeune, NC 28542  
Telephone: 919-451-2213

Sincerely,

  
R. E. CARLSON  
CDR, CEC, USN  
Public Works Officer  
By direction of the Commanding General

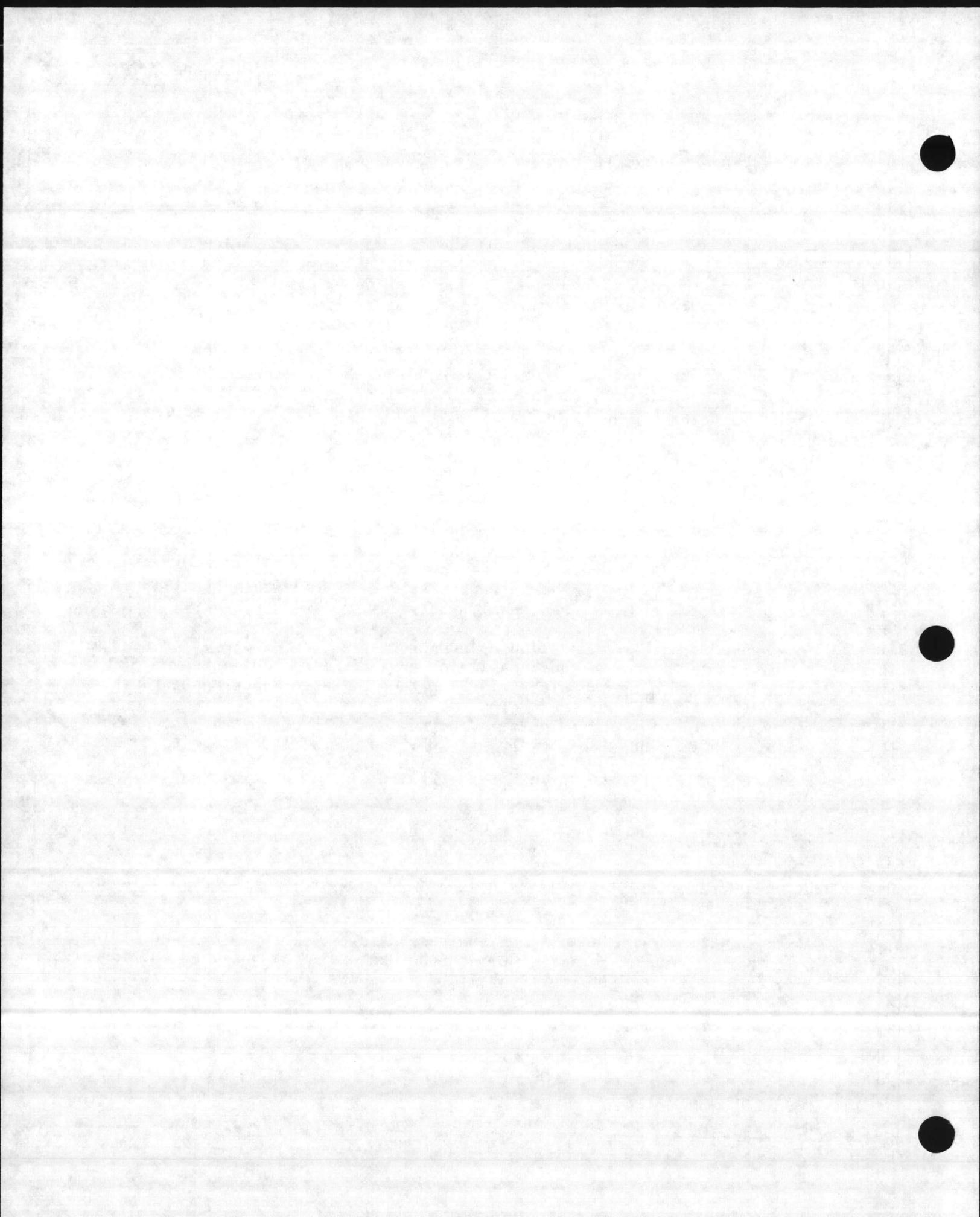
Encl



## SOLID WASTE PERMIT

## Conditions of Permit:

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.
2. This permit shall not be effective unless the certified copy is filed in the register of deeds' office, in the grantor index under the name of the owner of the land in the county or counties in which the land is located.
3. The "Certification of Recordation of Solid Waste Permit" returned to the Solid & Hazardous Waste Management Branch prior to receiving solid waste at the site.
4. This solid waste disposal site is permitted to receive solid waste as defined in 10 NCAC 10G, .0101(31), except that hazardous waste, liquid waste and any other wastes that may pose a threat to the environment or the public health are prohibited from disposal at this site unless prior authorization is obtained from the Division of Health Services.
5. This permit is for construction according to plans by McDowell-Jones, P.A., dated March, 1982. Any modification or deviation from the approved plans shall be approved by the N.C. Solid & Hazardous Waste Management Branch.
6. The fly ash area is operated so as to provide cover on the horizontal surface daily. The working slope of the area will not require daily cover if the fly ash does not become airborne. The fly ash should be graded and compacted daily, when disposed. Top cover for the fly ash may be other demolition material.
7. The grease holding pond is not part of this permit.
8. Ground-water monitoring wells are installed as shown in red on pages 1 and 2 of the plans per the enclosed specification.
9. Water quality monitoring will be the responsibility of Camp Lejeune Marine Corps Base. Parameters and sampling procedures will be outlined and forwarded. Results of water quality tests shall be forwarded to this office annually.



*Mell*  
*JL*

*sent?*

July 20, 1982

Commanding General  
United States Marine Corps  
Marine Corps Base  
Camp Lejeune, NC 28542  
Attn: Asst. Chief of Staff-Facilities

Re: Permit #67-03  
Camp Lejeune, Onslow County

Dear Sir:

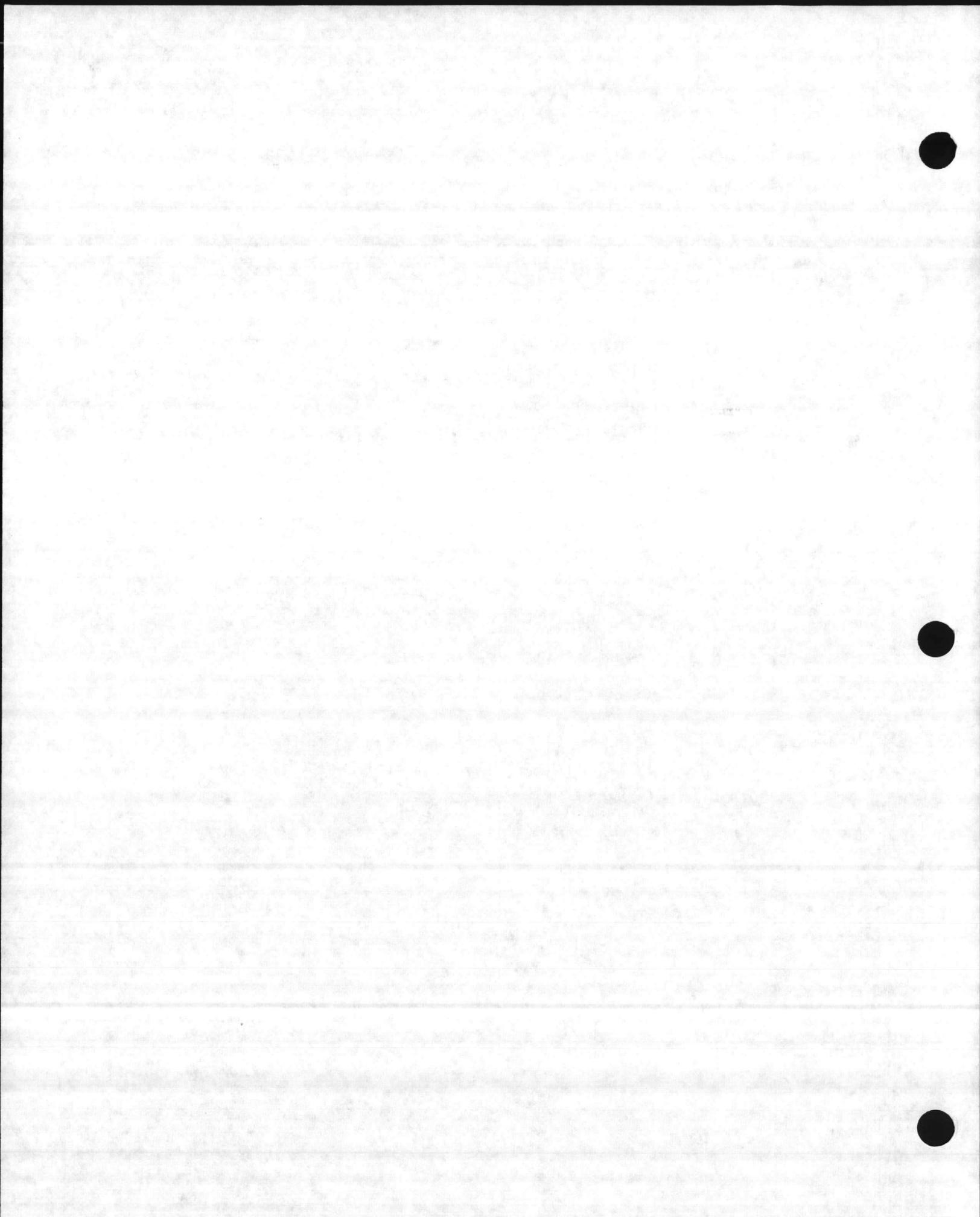
The enclosed plan is approved in accordance with  
G.S. 130-166. Permit No. 67-03 is issued under  
conditions provided for on the permit.

If you have any questions, please advise.

Respectfully,

J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

JGL:ns  
Enclosure  
cc: R. E. Carlson  
Raymond L. Church  
Pat McDowell  
Eris L. Rouse



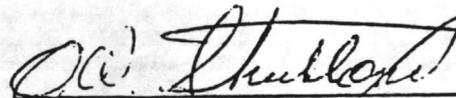
STATE OF NORTH CAROLINA  
DEPARTMENT OF HUMAN RESOURCES  
*Division of Health Services*  
P.O. Box 2091                      Raleigh 27602

SOLID WASTE PERMIT

CAMP LEJEUNE MARINE CORPS BASE is hereby issued a permit to  
operate a SANITARY LANDFILL  
located ON SNEADS FERRY ROAD (ON SLOW COUNTY),

in accordance with Article 13B of the General Statutes of North Carolina and all  
rules promulgated thereunder and subject to the conditions set forth in this  
permit. The facility is located on the below described property.

BEGINNING at a point 332,151.5691/2,508,793.014:  
thence N 28° 22' 46" W 3,100 feet;  
thence N 61° 37' 14" E 1,950 feet;  
thence S 28° 22' 46" E 3,100 feet;  
thence S 61° 37' 14" W 1,950 feet;  
to the point of beginning. The above coordinates are relative to the  
N.C. Coordinate System.

  
O. W. Strickland, Head  
Solid & Hazardous Waste Management  
Branch  
Environmental Health Section





DIVISION OF HEALTH SERVICES

P.O. Box 2091  
Raleigh, N.C. 27602-2091

CERTIFIED COPY OF SOLID WASTE PERMIT

I do hereby certify that the attached PERMIT is an exact and true copy  
of Permit No. 107-03.

*O. W. Strickland*

O. W. Strickland, Head  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

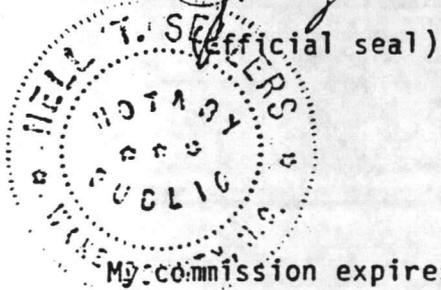
North Carolina

Wake County

I, Nell T. Sellers, a Notary Public for said

County and State, do hereby certify that O. W. Strickland  
personally appeared before me this day and acknowledged the due  
execution of the foregoing instrument.

Witness my hand and official seal, this the 20<sup>th</sup> day of  
July, 1982.



Nell T. Sellers  
Notary Public

NORTH CAROLINA, ONSLOW COUNTY  
The foregoing certificate(s) of

Nell T. Sellers

Notary (ies) Public is (are) certified to be correct. This instrument was presented for registration and re-  
corded in this office in Book 630 Page 866. This 26 day of August

1982 A. D. at 9:13 o'clock A. M.

Mildred M. Thomas  
Register of Deeds, Onslow County

By

Register of Deeds



DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

*Permits*

CERTIFICATION OF RECORDATION OF SOLID WASTE PERMIT

The Certified Copy of Permit # 67-03 was recorded  
on Page 630, Book 866; on this  
26 day of August, 1982.  
9:13 A.M.

*Michael M. Thomas*  
Register of Deeds

(seal)

To Landfill Owner/Operator:

In order for this permit to be valid it must be recorded as specified in the Permit. This certification of recordation must be received by the Solid & Hazardous Waste Management Branch, Division of Health Services, P.O. Box 2091, Raleigh, NC 27602, prior to receiving solid waste at the disposal site.





*(D. Levine)*  
Ronald H. Levine, M.D., M.P.H.  
STATE HEALTH DIRECTOR  
*(J. H. W.)*

DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

December 10, 1982

Commanding General  
United States Marine Corps  
Marine Corps Base  
Camp Lejeune, NC 28542  
Attn: Asst. Chief of Staff-Facilities

Re: Groundwater monitoring at Camp Lejeune Landfill - Permit #67-03

Dear Sir:

As noted on the approved operational plan of July 20, 1982, four groundwater monitoring wells were to be installed around the site. Condition number 9 of the permit stated that Camp Lejeune would be responsible for sampling and analyses of the wells. I will outline the parameters to be analyzed and sampling procedures below:

The following parameters are to be sampled and analyzed at least annually:

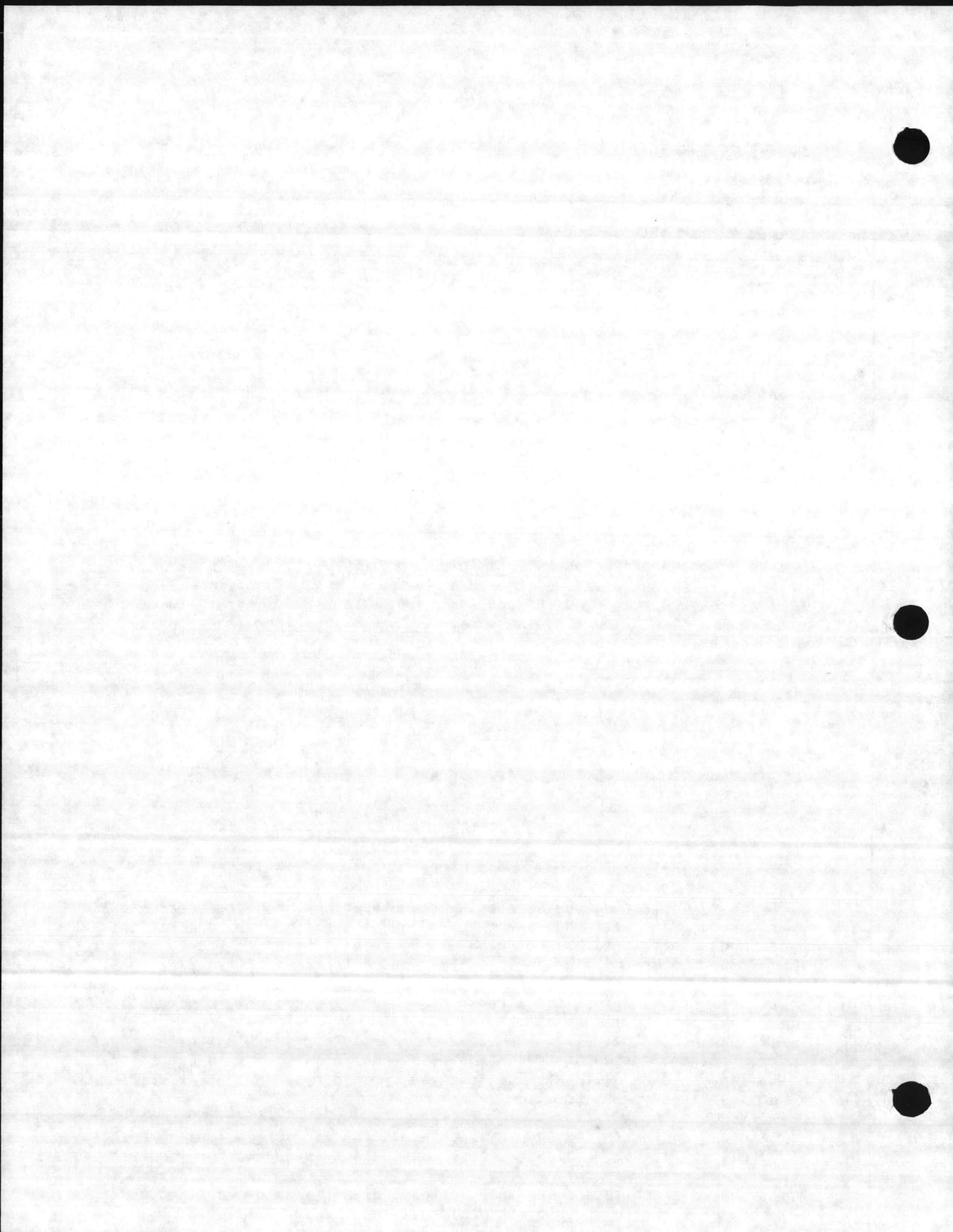
Arsenic	Lead	Nitrate	Color
Barium	Mercury	Fluoride	Iron
Cadmium	Selenium	Chloride	Manganese
Chromium	Silver	Copper	Sulfate
pH		Total Organic Carbon	
Total Dissolved Solids		Total Organic Halogen	
Zinc		Water Elevation	
Conductivity			

Prior to collecting the samples, water elevations should be measured and recorded. The well should then be purged at least 2-3 volumes of the well casing. This is to assure fresh groundwater is being collected. Samples may then be drawn using a PVC bailer and collected in clean plastic containers. Water collected for the total organic halogen analysis should be collected in glass containers which have been properly cleaned.

Between wells the bailer should be thoroughly rinsed in tap water. An even better method of preventing cross-contamination is to use a separate bailer for each well which can then be cleaned back in the lab. This option is at your discretion.

Samples should be iced and transported to the lab for analysis. A chain of custody is not required, unless you feel it is needed for your records.

Samples should be collected and analyzed during the month of April each year and a copy of the results submitted to me as they become available.



~~If you have any questions concerning this matter, please contact me at  
(919) 733-2178.~~

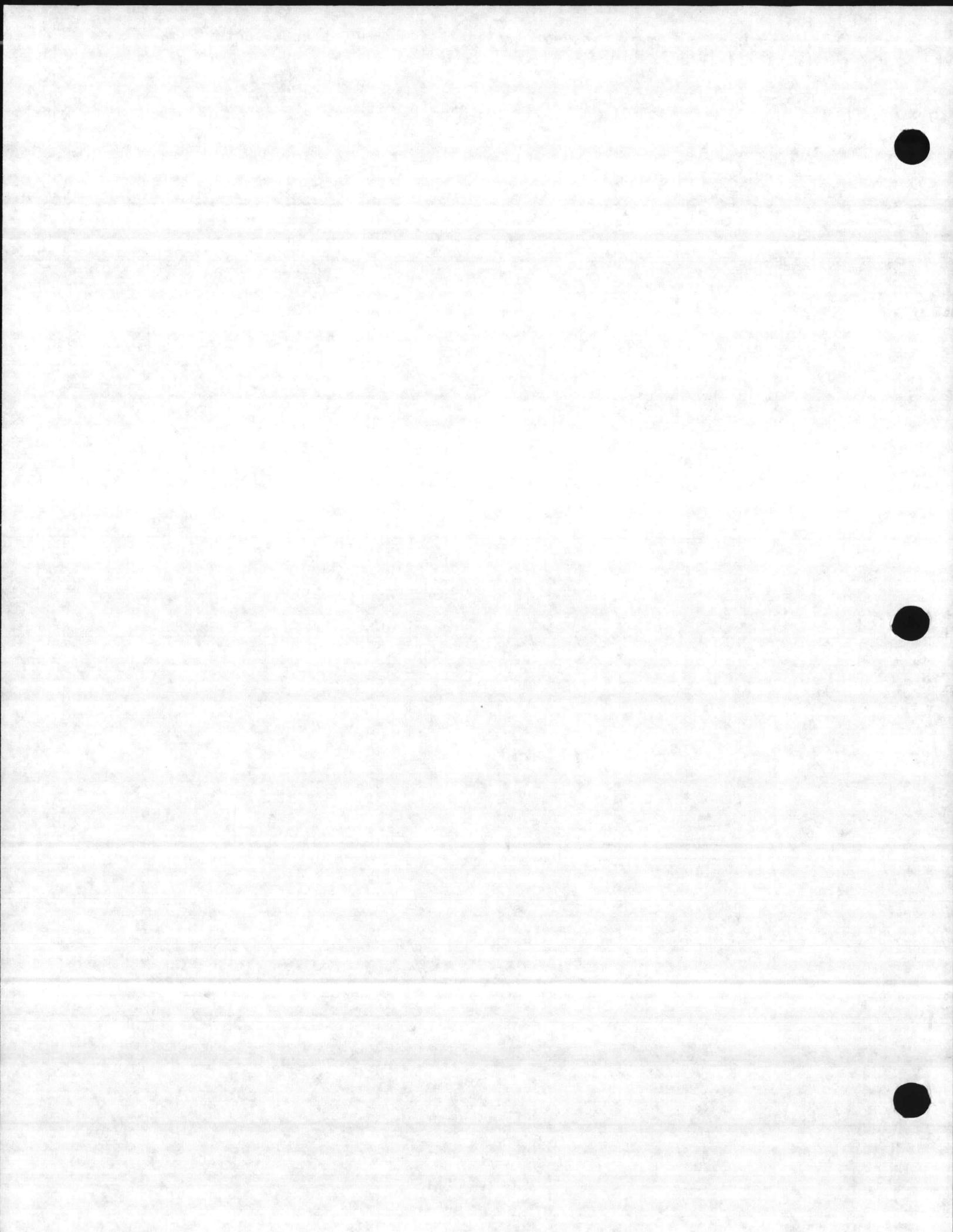
Sincerely,

*Gary D. Babb*

Gary D. Babb, Geologist  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

GOB:ns

cc: Danny Sharpe  
Raymond L. Church





*Cxo*

North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.  
State Health Director

UNSKOW CO.

September 24, 1986

Commanding General  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

Dear Ms. Betz:

The Solid and Hazardous Waste Management Branch is in the process of compiling water quality data for all of the solid waste facilities throughout North Carolina. For some unknown reason, this office does not have copies of the laboratory water quality analysis from the ground-water monitoring wells at the Camp Lejeune Landfill. Would it be possible for you to mail me copies of all available ground water (and surface water) quality results from the landfill? As you may be aware, future sampling intervals are to be on an annual basis and subsequent analysis should include the following total parameters: arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, chloride, copper, fluoride, iron, zinc, manganese, and nitrate. Additionally, the following environmental indicators are to be tested for as well: total organic halogens (TOX), total dissolved solids (TDS), total organic content (TOC), Ph and conductivity. Copies of these results should be forwarded within 15 days of receipt (from your office) to the Solid Waste Hydrogeologist at the Solid and Hazardous Waste Management Branch P.O. Box 2091 Raleigh, North Carolina 27602-2091.

Your assistance is greatly appreciated and please contact this office at (919) 733-2178 if you have further comments or questions

Yours Sincerely,

Michael L. Babuin, Hydrogeologist  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

MLB/mj





North Carolina Department of Human Resources

Division of Health Services

P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.  
State Health Director

February 9, 1987

Danny Sharp  
Camp Lejeune  
CC MLB Director, NR+Env. Aff.  
Camp Lejeune, NC 28542

NOTICE OF DEFICIENCY: Regarding ground-water monitoring wells at Camp LeJeune Landfill.

Dear Mr. Sharp:

A recent inspection at the above referenced facility indicates the following problems associated with the operation and subsequent maintenance of the existing ground-water monitoring wells.

1. Damaged PVC cap.
2. Rusted outer casing.

Because these problems significantly influence and affect the integrity and validity of the analytical results, it is of the utmost importance that these deficiencies be corrected as soon as possible. Your prompt attention to this matter is greatly appreciated.

Yours sincerely,

*Thomas R. Will*

Tom Will, Hydrogeological Technician  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

TW/mj/6213pg12

cc: M.L. Babuin

